

SPICE N' VYBE

Gonzague Foods LLC · Oakland Park, FL

AI Technology Initiatives

Scope of Work — DevOps Engineering Team

7 AI Modules · 12–16 Week Delivery · 2–3 Engineers
SNV Cloud Kitchen, Ft. Lauderdale · Version 2.0 · June 2026

Executive Summary

Spice N'Vybe, operated by Gonzague Foods LLC, is a growing Afro-Caribbean fusion restaurant brand headquartered in Oakland Park, Florida. The brand has recently pivoted its expansion strategy from a leased second restaurant location to launching the SNV Cloud Kitchen in Fort Lauderdale — a capital-efficient move that mirrors how industry leaders like Wingstop and Ghost Kitchen Brands have scaled at fraction of traditional build-out costs.

With a long-term vision of 30 locations over 10 years, the business is at a critical inflection point where operational efficiency, data visibility, and scalable systems are foundational. This Scope of Work defines seven discrete AI-powered modules to be built by the DevOps engineering team:

- Real-time financial and operational visibility for owners
- Data-driven 24-month forecasting including Cloud Kitchen ramp-up modeling
- AI-powered scheduling to protect the 25% labor cost target
- Automated commercial real estate monitoring for future expansion
- Always-on operations chatbot trained on all SNV documentation
- Scalable digital training system for multi-location onboarding
- AI investor research engine to accelerate capital conversations

Total estimated engineering effort: 12–16 weeks with a team of 2–3 engineers.

Strategic Update: SNV Cloud Kitchen, Ft. Lauderdale

Location Strategy Update

The initial attempt to lease a second dine-in restaurant in Cooper City has been replaced by the SNV Cloud Kitchen concept launching in Fort Lauderdale. This strategic pivot reduces upfront capital requirements while allowing the brand to validate the replication model at significantly lower operational risk.

The Cloud Kitchen model has proven highly effective for Afro-Caribbean and cultural cuisine brands seeking to expand without the full overhead of a dine-in buildout. Key advantages for SNV include:

- Lower build-out cost (estimated 40–60% reduction vs. traditional second location)
- Faster time-to-revenue: Cloud Kitchen can be operational in 4–8 weeks vs. 4–6 months for a full restaurant
- Proof-of-concept for the brand's replication model before committing to a full second dine-in location
- Delivery-first revenue stream that complements existing dine-in and catering channels
- Reduced risk during investor due diligence — a operating Cloud Kitchen is a tangible proof point

All seven AI modules in this Scope of Work have been updated to reflect the Cloud Kitchen in Ft. Lauderdale as the primary second location. The Training System, Schedule Optimizer, and GF Dashboard all include multi-location support built in from Day 1.

How Leading Restaurant Brands Have Scaled with AI

The following insights are drawn from publicly reported outcomes at restaurant companies that have deployed AI across operations, scheduling, forecasting, and customer engagement. Each lesson is directly applicable to SNV's current growth stage.

► Sweetgreen

Deployed AI demand forecasting across 200+ locations, reducing food waste by 20% and improving COGS by 3 percentage points. Their model uses weather, local events, and day-of-week patterns — the same inputs available in MarginEdge.

SNV Takeaway: For SNV: Layer local event data (World Cup, Sunfest) into the financial forecast model to predict revenue spikes and prep accordingly.

► Domino's

Built an AI-powered ordering and ops platform that added over \$1B in annual digital sales. Their "Fortressing" strategy — dense geographic clustering — was modeled on AI analysis of delivery radius profitability before committing to each new location.

SNV Takeaway: For SNV: Use the CRE Intelligence Tool not just to find spaces but to model trade-area overlap between Oakland Park and the Cloud Kitchen before selecting any future sites.

► Chick-fil-A

AI-driven scheduling keeps labor at approximately 28% of sales systemwide despite premium wages. Their scheduling algorithm factors in drive-through queue time predictions, not just covers — a level of precision that drives meaningful margin protection.

SNV Takeaway: For SNV: The Schedule Optimizer should eventually incorporate SpotOn order volume forecasts by time-of-day, not just weekly sales totals, for maximum precision.

► Wingstop

Achieved 65%+ digital sales by combining AI chatbot ordering, digital menu boards, and a cloud-kitchen-first expansion model. Their ghost kitchen units opened at 60% lower build-out cost than traditional locations while matching 85% of full-store revenue.

SNV Takeaway: For SNV: The Cloud Kitchen in Ft. Lauderdale mirrors this exact playbook. Use the Training System and Chatbot to standardize operations fast before replicating the model.

► Toast / SpotOn Operators

Restaurants using AI-powered POS analytics consistently outperform peers on menu engineering — identifying the top 20% of items that drive 80% of profit and eliminating low-margin, high-complexity dishes. Average menu simplification saves 15–20% on food cost.

SNV Takeaway: For SNV: Feed SpotOn sales data into the Financial Forecast tool to run margin analysis by menu item and surface which items to promote vs. retire.

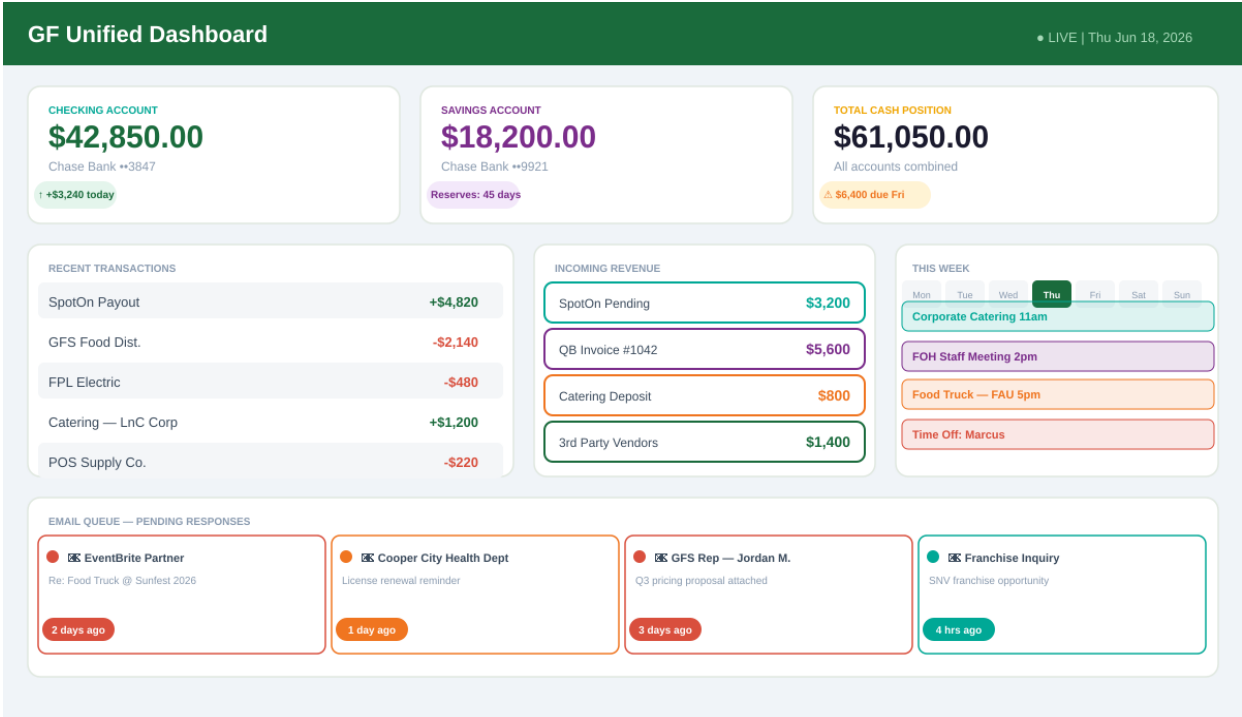
► Shake Shack

Implemented AI-powered dynamic menu boards that adjust item prominence based on time-of-day demand patterns, improving average ticket by 8%. Also deployed RAG chatbots internally for franchise support, reducing franchisee support calls by 40%.

SNV Takeaway: For SNV: The Operations Chatbot is a direct parallel to Shake Shack's internal RAG system. Prioritize it early so it can support the Cloud Kitchen team from Day 1.

Module Scope Definitions

MODULE 01 · GF Unified Business Intelligence Dashboard



Pain Point

Owners need a real-time, single-pane-of-glass view of financial and operational position at any moment.

Overview

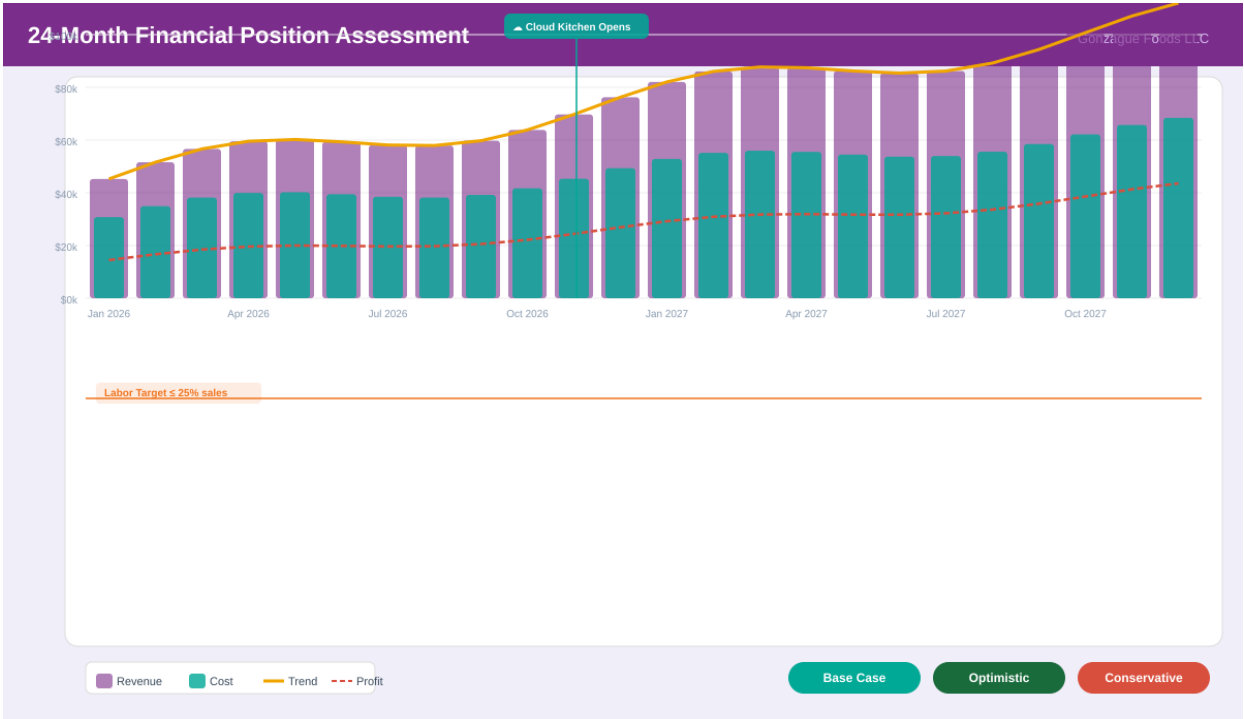
A web-based executive dashboard aggregating live data from banking APIs (Plaid), QuickBooks, SpotOn, Gmail, Google Calendar, and third-party vendor portals. Accessible via secure URL from any device.

Key Features & Deliverables

- Live bank balances (checking + savings) with 5 most-recent transactions per account
- Pending invoice tracker and upcoming operational payments (from QuickBooks + AI email parsing)
- Incoming revenue pipeline: SpotOn pending payouts, QuickBooks outstanding invoices, 3rd-party receivables
- Weekly calendar widget — events, catering bookings, reservations, staff time-off requests
- Email queue: unanswered threads flagged with sender, subject, and wait-time indicator
- Color-coded health indicators (green/amber/red) for each financial metric

Integrations	Plaid (banking) · QuickBooks Online · SpotOn · Gmail/Outlook · Google Calendar · MarginEdge
Tech Stack	React + Next.js frontend · Node.js/Express backend · PostgreSQL · OAuth 2.0 · AWS / Vercel
Effort	6–8 weeks
Priority	CRITICAL

MODULE 02 · 24-Month Financial Position Assessment & Forecasting



Pain Point

No automated forward-looking financial view. Expansion planning and investor conversations require a data-driven forecast model with scenario analysis.

Overview

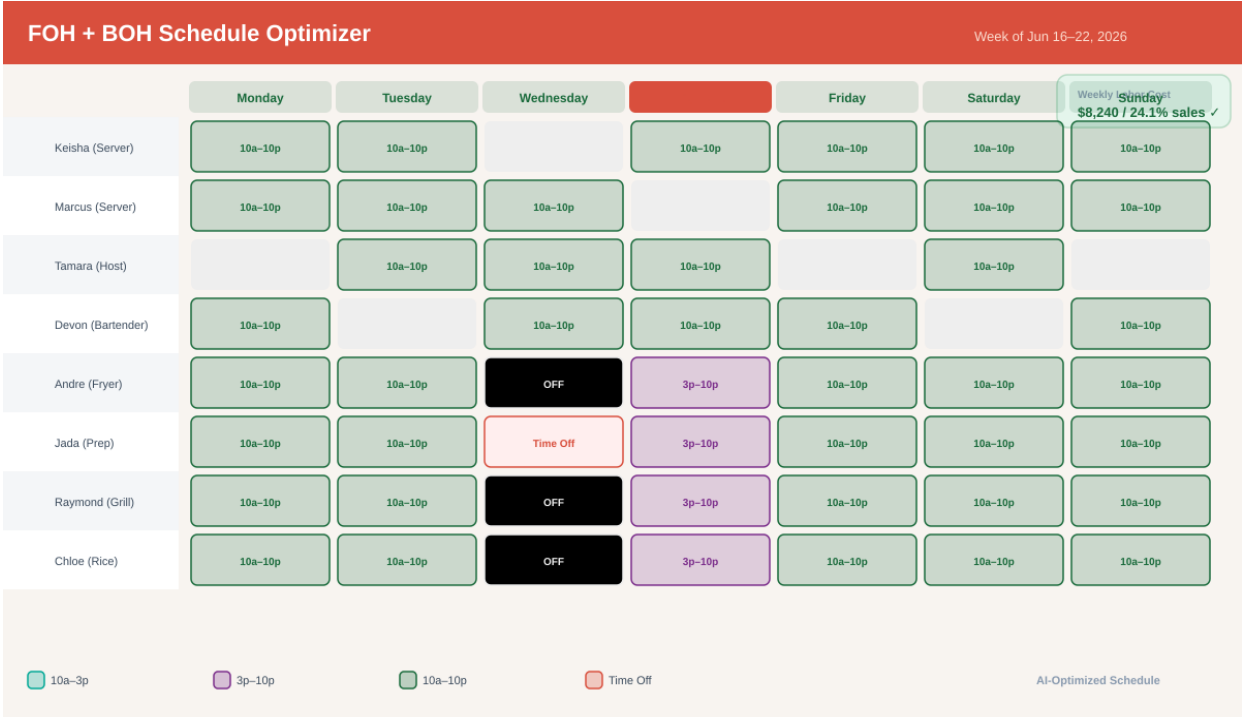
AI-powered forecasting that ingests historical sales, fixed/variable costs, and seasonal trends to generate rolling 24-month revenue, cost, and cash flow projections. Includes SNV Cloud Kitchen (Ft. Lauderdale) ramp-up modeling.

Key Features & Deliverables

- Historical data ingestion: QuickBooks, MarginEdge, tax returns (2–3 year lookback)
- Revenue channels modeled separately: dine-in, catering, food truck, events, Cloud Kitchen
- Expenditure forecast: COGS, labor (target ≤25% of sales), rent, utilities, and G&A
- Scenario modeling: Base / Optimistic / Conservative with toggle controls
- SNV Cloud Kitchen Ft. Lauderdale ramp-up curve as configurable variable
- Monthly P&L, cash position, and break-even visualization
- PDF executive summary export formatted for investor/lender review

Integrations	QuickBooks Online · MarginEdge · Manual upload (tax docs, lease obligations)
Tech Stack	Python (pandas + Prophet forecasting) · Streamlit / React · ReportLab PDF export
Effort	4–6 weeks
Priority	HIGH

MODULE 03 · AI-Powered FOH + BOH Schedule Optimizer



Pain Point

Building weekly schedules manually is time-consuming and rarely optimized for labor cost targets. Time-off requests and availability are tracked inconsistently.

Overview

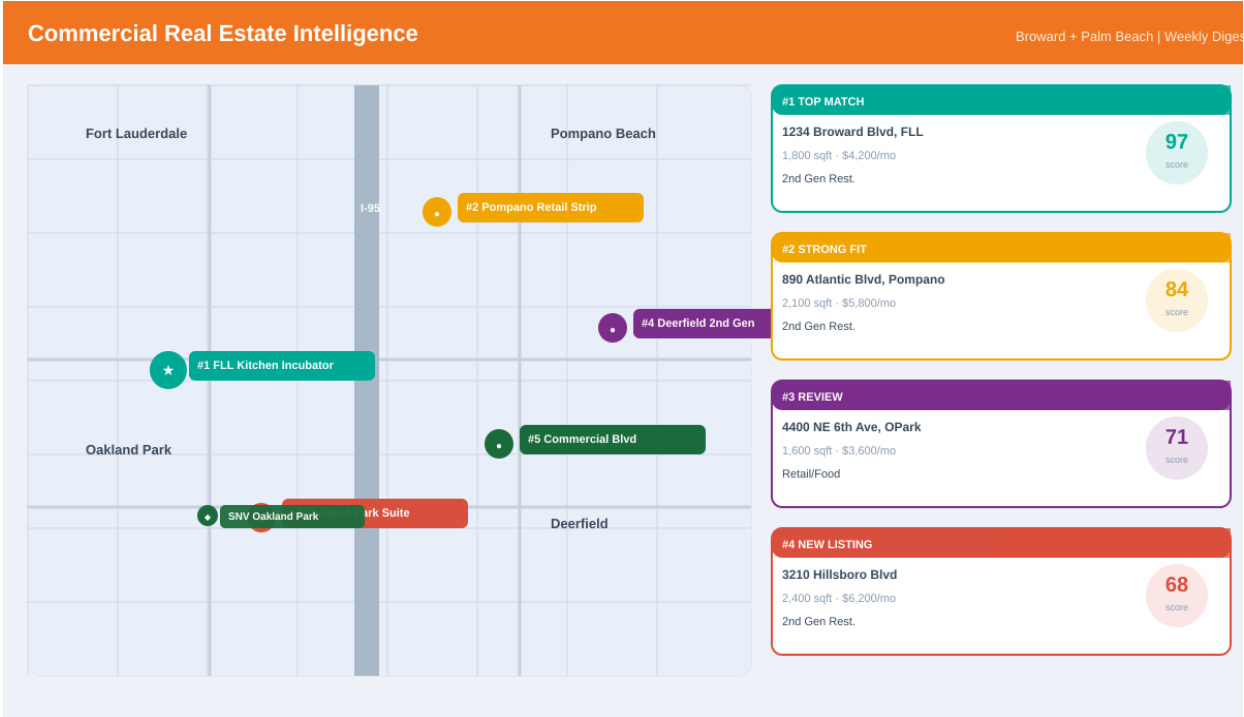
An intelligent scheduling tool that ingests employee availability, time-off requests, role certifications, and forecasted sales (MarginEdge) to auto-generate draft weekly schedules. Optimizer targets total weekly labor cost at or below 25% of forecasted sales.

Key Features & Deliverables

- Employee profile database: role, hourly rate, availability windows, preferred shifts, time-off
- MarginEdge sales forecast integration to set weekly labor budget ceiling
- Constraint-based optimization: min/max hours, required role coverage, overtime alerts
- Separate FOH and BOH schedule views with cross-view for managers
- Schedule conflict detection and resolution suggestions
- One-click draft publication: email/SMS notification to staff via Twilio
- Labor cost dashboard: projected vs. actual wage spend by day and week

Integrations	MarginEdge API · Employee web form · Email/Twilio SMS notifications
Tech Stack	Python (OR-Tools optimization) · React scheduling UI · PostgreSQL
Effort	4–5 weeks
Priority	HIGH

MODULE 04 · Automated CRE Intelligence Tool



Pain Point

Manually searching Loopnet and other listing sites weekly for 2nd-generation restaurant spaces in Broward and Palm Beach counties is repetitive and inconsistent.

Overview

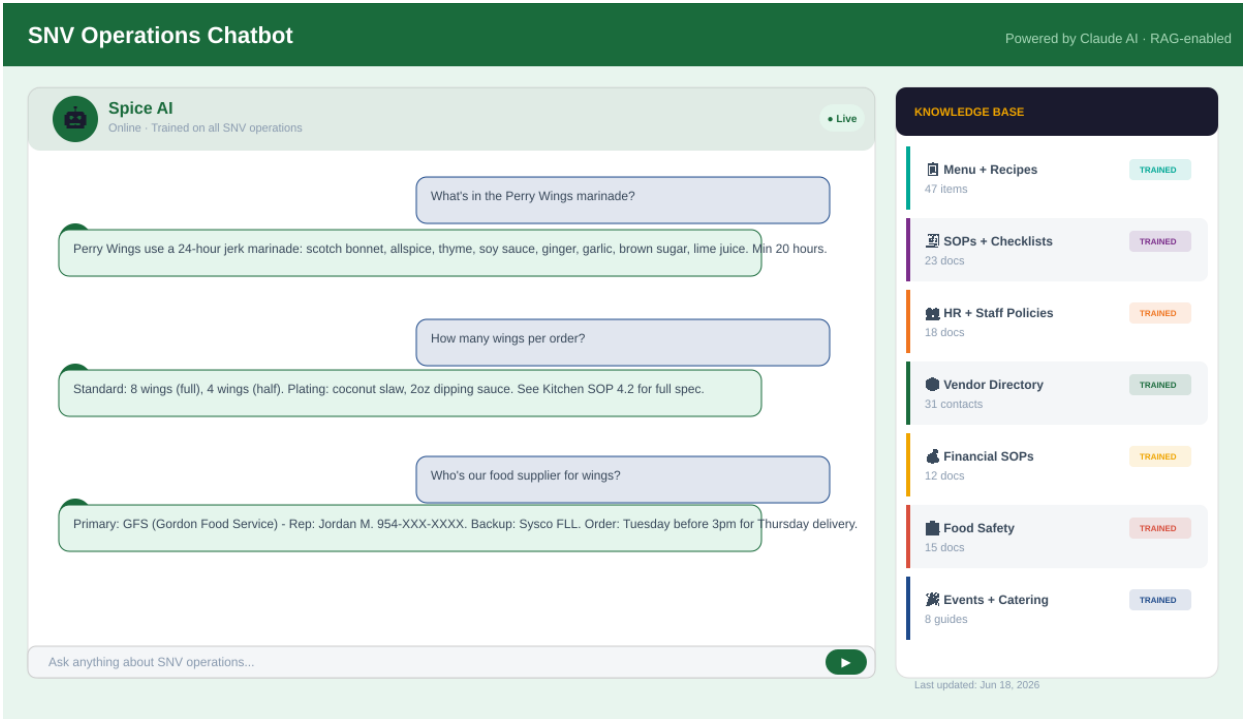
An automated scraping and monitoring agent searching Loopnet, CoStar, Crexi, and local feeds on a weekly schedule. New listings matching defined criteria are compiled into a formatted email digest with AI-generated summaries.

Key Features & Deliverables

- Configurable search: county, city, sqft range, price, property type, zoning, 2nd-gen preferred
- Weekly automated scrape with delta comparison (only new/changed listings reported)
- AI-generated listing summary: key specs, location highlights, demographic proximity
- Google Maps integration: distance from SNV Oakland Park and Cloud Kitchen locations
- Weekly email digest with property cards, photos, and direct Loopnet/Crexi links
- Priority alerts for high-fit locations (within target zip codes)
- Saved search history and listing archive for deal tracking

Integrations	Loopnet · Crexi · CoStar (read-only) · Google Maps API · SendGrid email
Tech Stack	Python (Playwright/Selenium) · Celery + Redis scheduler · SQLite/Postgres archive
Effort	3–4 weeks
Priority	MEDIUM

MODULE 05 · Spice N'Vybe AI Operations Chatbot



Pain Point

Staff and owners need quick answers about menus, recipes, procedures, supplier contacts, and brand standards with no centralized resource available around the clock.

Overview

A retrieval-augmented generation (RAG) chatbot trained on all SNV operational documentation — menus, recipes, SOPs, employee handbook, vendor contacts, and brand guidelines. Accessible via a web widget, embeddable in the training portal.

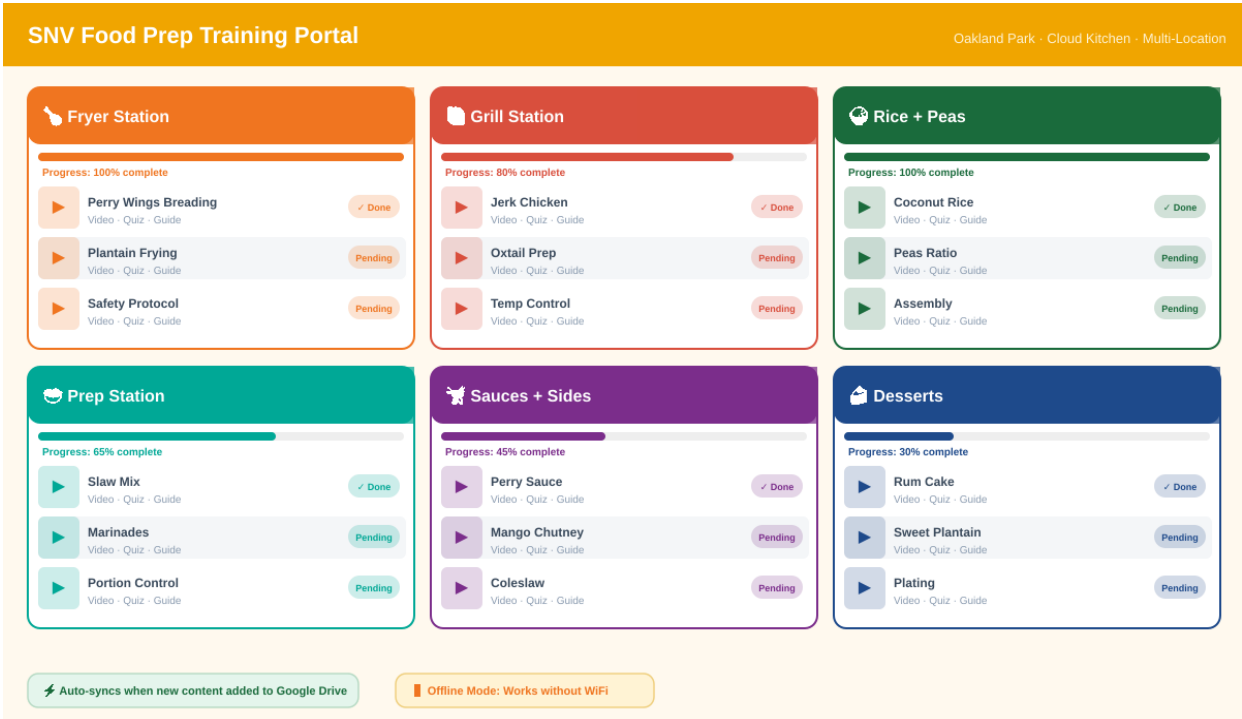
Key Features & Deliverables

- Natural language Q&A over menus, recipes, SOPs, vendor contacts, and brand guidelines
- Menu knowledge: ingredients, allergens, prep methods, substitutions, portion specs
- SOP library: opening/closing checklists, food safety, catering procedures, complaint handling
- Role-based access: staff chatbot vs. owner chatbot (with financial and HR data access)
- Escalation logging: unanswerable questions flagged for owner review
- Admin panel to upload new documents and retrain the knowledge base
- Optional: Slack or WhatsApp channel integration for mobile access

Integrations	Anthropic Claude API (RAG) · Internal PDFs, Word docs, Google Docs · Pinecone vector store
Tech Stack	Python (LangChain RAG) · Pinecone · React chat widget · Claude claude-sonnet-4-6
Effort	4–5 weeks

Priority	HIGH
----------	------

MODULE 06 · Web-Based Food Prep Training System



Pain Point

Kitchen staff onboarding relies on in-person shadowing. Training is inconsistent and not scalable across Oakland Park and the SNV Cloud Kitchen in Ft. Lauderdale.

Overview

A web-based, offline-capable progressive web app organizing all food prep content — recipe videos, step-by-step guides, critical control points, quizzes — by station and menu item. Content automatically updates when new materials are added to a designated Google Drive folder. Extends the existing kitchen training system already in operation.

Key Features & Deliverables

- Station-organized content library: Fryer, Grill, Prep, Rice + Peas, Sauces, Desserts
- Embedded video player with step-by-step interactive recipe cards
- Critical control point callouts for food safety compliance
- Per-module knowledge check quizzes with pass/fail tracking
- Auto-update pipeline: new Drive uploads trigger automatic content refresh
- Offline mode: content cached locally for kitchen tablet use without WiFi
- Staff completion tracking dashboard for owners
- Multi-location tagging: Oakland Park · Cloud Kitchen Ft. Lauderdale

Integrations	Google Drive API (auto content sync) · YouTube/Vimeo embed · Optional LMS integration
Tech Stack	React PWA (offline support) · Node.js content API · Google Drive webhooks · SQLite cache

Effort	3–4 weeks (foundation exists — extends current system)
Priority	HIGH

MODULE 07 · Food + Hospitality Investor Research Engine



Pain Point

Manually researching potential investors in food and hospitality is time-intensive with no systematic process to identify, profile, and track investor prospects.

Overview

An AI-powered research agent performing deep, recurring searches across investor databases, LinkedIn, Crunchbase, news, and public filings to identify food and hospitality investors actively deploying capital. Results compiled into structured investor profiles for outreach.

Key Features & Deliverables

- Investor discovery: angel investors, family offices, VCs, and PE with food/hospitality thesis
- Florida-focused and national coverage toggles
- Investor profile cards: fund size, portfolio companies, check size, contact info
- AI relevance scoring: ranks investors by fit with SNV's stage, geography, and concept
- Weekly new investor alerts: monitors for new deals announced in the sector
- Outreach CRM-lite: log contacts made, emails sent, and responses received
- Export to formatted investor target list (PDF + Excel)

Integrations	Crunchbase API · LinkedIn (browser automation) · Claude API · NewsAPI · SendGrid
Tech Stack	Python + Claude claude-sonnet-4-6 (research synthesis) · Airtable or Notion CRM · SendGrid
Effort	3–4 weeks

Priority	MEDIUM
----------	--------

Unified Technology Stack

All seven modules share a cloud-native, API-first architecture designed for multi-location scalability from Day 1.

Layer	Technology	Modules
Frontend	React / Next.js	01 Dashboard, 03 Scheduling, 05 Chatbot, 06 Training
Backend	Node.js + Python	All modules — APIs, agents, jobs, optimization
Database	PostgreSQL + SQLite	Records, listings, logs, offline cache
AI / LLM	Anthropic Claude API	05 Chatbot RAG, 07 Research synthesis, 01 email parsing
Automation	Celery + Redis	04 CRE scraper, weekly digests, forecast refresh
Auth	OAuth 2.0 + JWT	All modules — secure API connections, role-based access
Hosting	AWS / Vercel	Cloud deployment; serverless where appropriate
Notify	Twilio + SendGrid	03 Schedule SMS, 04 CRE digest, 07 Investor alerts

Implementation Timeline

Modules are sequenced by priority, dependency, and time-to-value. Quick wins are delivered first while more complex integrations are built concurrently.

Phase	Modules & Activities	Expected Outcomes
Week 1–2	Module 06: Training system + Module 04: CRE scraper setup	Cloud Kitchen training ready; first CRE scrape running
Week 3–4	Module 04 LIVE + Module 07 v1	Weekly CRE digest delivered; investor list v1 complete
Week 5–7	Module 05: Chatbot + Module 03: Scheduling	Chatbot live on portal; first AI-generated schedule
Week 8–10	Module 02: Financial Forecast	24-month model live; investor PDF export ready
Week 11–14	Module 01: GF Dashboard (all API integrations)	Full unified dashboard live with all data sources
Week 15–16	QA, Security Review, UAT + Owner Training	All modules validated and handed off

Recommended Team Structure

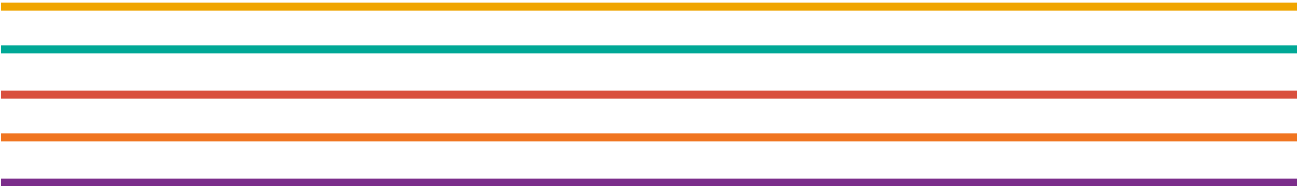
Role	Count	Responsibilities
Full-Stack Engineer	1–2	React frontends, Node.js APIs, database design, module integration
Python / AI Engineer	1	Forecasting, RAG chatbot, CRE scraper, schedule optimizer
QA / DevOps	0.5 (part-time)	Testing, CI/CD pipeline, AWS deployment, security review

Deliverables Summary

At project completion, the engineering team delivers:

- Module 01: GF Unified Dashboard — live web app with all API integrations
- Module 02: 24-Month Financial Forecasting Tool — interactive web app + PDF investor export
- Module 03: AI Schedule Optimizer — web app with SMS/email notification system
- Module 04: CRE Intelligence Tool — automated scraper + weekly email digest
- Module 05: Operations Chatbot — RAG chatbot on web + training portal
- Module 06: Food Prep Training System — PWA with offline support + Drive auto-update pipeline
- Module 07: Investor Research Engine — AI agent + CRM + weekly digest

- Source code in GitHub (mono-repo or per-module)
- Staging + production cloud deployments
- Admin documentation and user guide per module
- 2-hour owner training session before handoff



"Every customer is a family member."

Spice N'Vybe · Gonzague Foods LLC · Confidential · June 2026